INTERNATIONAL JOURNAL OF PHARMACEUTICS

VOL. 94 NO. 1–3 CONTENTS 21 JUNE 1993

Cited in: Current Contents (Life Sciences; Clinical Practice); International Pharmaceutical Abstracts; Biological Abstracts; Chemical Abstracts; Excerpta Medica EMBASE; PASCAL M; Science Citation Index; Current Awareness in Biological Sciences

Announcement from the Publisher v

Review

Rapid expansion from supercritical solutions: application to pharmaceutical processes
E.M. Phillips and V.J. Stella (USA) 1

Research Papers

Solubility of ionization behavior of the antifungal α-(2,4-difluorophenyl)-α-[(1-(2-(2-pyridyl)phenylethenyl)]- 1H-1,2,4-triazole-1-ethanol bismesylate (XD405)
M.B. Maurin, R.D. Vickery, C.A. Gerard and M. Hussain (USA) 11

Linear extended release of a water-insoluble drug, carbamazepine, from erodible matrices
P. Giunchedi, L. Maggi, U. Conte and A. La Manna (Italy) 15

An application of regular solution theory in the study of the solubility of naproxen in some solvents used in topical preparations
M.D. Contreras Claramonte, A. Parera Vialard and F. Girela Vilchez (Spain) 23

Structures formed by interactions in solid dispersions of the system polyethylene glycol-griseofulvin with charged and non charged surfactants added
M. Aldén, J. Tegenfeldt and E.S. Saers (Sweden) 31

The influence of antitack additives on drug release from film-coated granules
L.S.C. Wan and W.F. Lai (Singapore) 39

Experiments with an instrumented twin-screw extruder using a single-step granulation/extrusion process
P. Kleinebudde and H. Lindner (Germany) 49

Processing factors affecting particle size and in vitro drug release of sustained-release ibuprofen microspheres
R.S. Al-Kassas, C.A. Gilligan and A. Li Wan Po (UK) 59

Bioavailability study of tolbutamide β-cyclodextrin inclusion compounds, solid dispersions and bulk powder
F. Kedzierewicz, C. Zinutti, M. Hoffman and P. Maincent (France) 69

Percutaneous local anaesthesia: drug release characteristics of the amethocaine phase-change system
A.D. Woolfson and D.F. McCafferty (UK) 75

Prediction of flux through polydimethylsiloxane membranes using atomic charge calculations
Y. Chen, W.-l. Yang and L.E. Matheson (USA) 81

Preparation of submicron drug particles in lecithin-stabilized o/w emulsions. II. Characterization of cholesteryl acetate particles
B. Sjöström, K. Westesen and B. Bergenståhl (Sweden, Germany) 89

A study of controlled-release systems for progesterone based on crosslinked poly(ethylene oxides)
V. Carelli, G. Di Colo, E. Nannipieri and M.F. Serafini (Italy) 103

A new in vitro technique for the evaluation of drug release profile from colloidal carriers – ultrafiltration technique at low pressure
B. Magenheim, M.Y. Levy and S. Benita (Israel) 115

Film-forming polymers for colonic drug delivery: I. Synthesis and physical and chemical properties of methyl derivatives of Eudragit S
R. Peeters and R. Kinget (Belgium) 125

A first estimation of the thermodynamic parameters of water/n-octanol partitioning of some tricyclic antidepressants: Similarities and differences with the values of other psychotropic drugs
G. Burgot and J.-L. Burgot (France) 135

Polyamino acid microspheres: Preparation, characterization and distribution after intravenous injection in rats
C. Li, D.J. Yang, L.-R. Kuang and S. Wallace (USA) 143

(Contents continued on p. 246)

0378-5173(19930621)94:1/3;1-H

INTERNATIONAL JOURNAL OF PHARMACEUTICS

VOL. 94 NO. 1–3 CONTENTS 21 JUNE 1993

Cited in: Current Contents (Life Sciences; Clinical Practice); International Pharmaceutical Abstracts; Biological Abstracts; Chemical Abstracts; Excerpta Medica EMBASE; PASCAL M; Science Citation Index; Current Awareness in Biological Sciences

Announcement from the Publisher v

Review

Rapid expansion from supercritical solutions: application to pharmaceutical processes
E.M. Phillips and V.J. Stella (USA) 1

Research Papers

Solubility of ionization behavior of the antifungal α-(2,4-difluorophenyl)-α-[(1-(2-(2-pyridyl)phenylethenyl)]- 1H-1,2,4-triazole-1-ethanol bismesylate (XD405)
M.B. Maurin, R.D. Vickery, C.A. Gerard and M. Hussain (USA) 11

Linear extended release of a water-insoluble drug, carbamazepine, from erodible matrices
P. Giunchedi, L. Maggi, U. Conte and A. La Manna (Italy) 15

An application of regular solution theory in the study of the solubility of naproxen in some solvents used in topical preparations
M.D. Contreras Claramonte, A. Parera Vialard and F. Girela Vilchez (Spain) 23

Structures formed by interactions in solid dispersions of the system polyethylene glycol-griseofulvin with charged and non charged surfactants added
M. Aldén, J. Tegenfeldt and E.S. Saers (Sweden) 31

The influence of antitack additives on drug release from film-coated granules
L.S.C. Wan and W.F. Lai (Singapore) 39

Experiments with an instrumented twin-screw extruder using a single-step granulation/extrusion process
P. Kleinebudde and H. Lindner (Germany) 49

Processing factors affecting particle size and in vitro drug release of sustained-release ibuprofen microspheres
R.S. Al-Kassas, C.A. Gilligan and A. Li Wan Po (UK) 59

Bioavailability study of tolbutamide β-cyclodextrin inclusion compounds, solid dispersions and bulk powder
F. Kedzierewicz, C. Zinutti, M. Hoffman and P. Maincent (France) 69

Percutaneous local anaesthesia: drug release characteristics of the amethocaine phase-change system
A.D. Woolfson and D.F. McCafferty (UK) 75

Prediction of flux through polydimethylsiloxane membranes using atomic charge calculations
Y. Chen, W.-l. Yang and L.E. Matheson (USA) 81

Preparation of submicron drug particles in lecithin-stabilized o/w emulsions. II. Characterization of cholesteryl acetate particles
B. Sjöström, K. Westesen and B. Bergenståhl (Sweden, Germany) 89

A study of controlled-release systems for progesterone based on crosslinked poly(ethylene oxides)
V. Carelli, G. Di Colo, E. Nannipieri and M.F. Serafini (Italy) 103

A new in vitro technique for the evaluation of drug release profile from colloidal carriers – ultrafiltration technique at low pressure
B. Magenheim, M.Y. Levy and S. Benita (Israel) 115

Film-forming polymers for colonic drug delivery: I. Synthesis and physical and chemical properties of methyl derivatives of Eudragit S
R. Peeters and R. Kinget (Belgium) 125

A first estimation of the thermodynamic parameters of water/n-octanol partitioning of some tricyclic antidepressants: Similarities and differences with the values of other psychotropic drugs
G. Burgot and J.-L. Burgot (France) 135

Polyamino acid microspheres: Preparation, characterization and distribution after intravenous injection in rats
C. Li, D.J. Yang, L.-R. Kuang and S. Wallace (USA) 143

(Contents continued on p. 246)

0378-5173(19930621)94:1/3;1-H

(Contents continued from back cover)

Quantitative structure-transportability relationship for the release of a series of substituted pyridines from a planar polydimethylsiloxane matrix
Y. Chen and L.E. Matheson (USA) 153

Ammonium glycyrrhizinate (AMGZ) effects on membrane integrity
P.M. Reardon and K.L. Audus (USA) 161

Effect of the opposite enantiomer on the physicochemical properties of (−)-ephedrinium 2-naphthalenesulfonate crystals
S.P. Duddu, F.K.-Y. Fung and D.J.W. Grant (USA) 171

Prediction of the compression behaviour of powder mixtures by the Heckel equation
J. Ilkka and P. Paronen (Finland) 181

The routes of penetration of ions and 5-fluorouracil across human skin and the mechanisms of action of terpene skin penetration enhancers
P.A. Cornwell and B.W. Barry (UK) 189

A comparative study on the role played by mucus glycoproteins in the rheological behaviour of the mucoadhesive/mucosal interface
S.A. Mortazavi, B.G. Carpenter and J.D. Smart (UK) 195

In vitro evaluation of a series of Azone analogs as dermal penetration enhancers. II. (Thio)amides
B.B. Michniak, M.R. Player, L.C. Fuhrman, C.A. Christensen, J.M. Chapman, Jr and J.W. Sowell, Sr (USA) 203

Assessment of corticosteroid-induced skin blanching: evaluation of the Minolta Chromameter CR200
M.J. Waring, L. Monger, D.A. Hollingsbee, G.P. Martin and C. Marriott (UK) 211

Consideration of adhesion to modified container walls, by use of surface energy and polarity data, and Lewis acid-Lewis base interactions
G. Buckton and B. Chandaria (UK) 223

Notes

HPLC determination of bendrofluazide in capsules
A.R. Barnes and S. Nash (UK) 231

Gastrointestinal transit of a matrix tablet formulation: comparison of canine and human data
S.S. Davis, E.A. Wilding and I.R. Wilding (UK) 235

Author index 239

Book Review 241

Noticeboard 243